

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				<i>Complete if Known</i>	
				Application Number	Unassigned
				Filing Date	February 20, 2004
				First Named Inventor	Lonny L. CHU
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	4	Attorney Docket Number	IMMR-004/01US

JD	A43	5,022,407		Horch et al.	06/11/1991
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JD	A45	4,937,685		Barker et al.	06/26/1990
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁴
		Office ¹	Number ²	Kind Code ³ (if known)			
JD	B1		0 349 086	A1	Stork Kwant B.V.	01/03/1990	
JD	B2		WO 95/02233		Cybernet Systems Corp.	01/19/1995	
JD	B3		WO 02/27705			04/04/2002	

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² For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
JD	C1	Balgrie, "Electric Control Loading - A Low Cost, High Performance Alternative," <i>Proceedings of Interservice/Industry Training Systems Conference</i> , pp. 247-254, November 6-8, 1990		
JD	C2	Iwata, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp. 287-292, 1993		
JD	C3	Russo, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," <i>MIT Libraries Archives</i> pp. 1-131, May 1990, archived 8/14/90		
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JD	C10	Caldwell et al., "Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System," 1050-4729/93, pp. 955-960, 1993		
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JD	C13	Stanley et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSC-Vol. 42, <i>Advances in Robotics</i> , pp. 55-61, ASME 1992		
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JD	C18	Bejczy, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," <i>Science</i> , Vol. 208, No. 4450, pp. 1327-1335, 1980		
JD	C19	Bejczy et al., "Generalization of Bilateral Force-Reflecting Control of Manipulators," <i>Proceedings Of Fourth CISM-IFTOMM</i> , Sep. 8-12, 1981		
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JD	C23	Shimoga, "Finger Force and Touch Feedback Issues in Dexterous Telemanipulation," <i>Proceedings of Fourth Annual Conference on Intelligent Robotic Systems for Space Exploration</i> , Rensselaer Polytechnic Institute, Sep. 30- Oct. 1, 1992		
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JD	C25	Terry et al., "Tactile Feedback In A Computer Mouse," <i>Proceedings of Fourteenth Annual Northeast Bioengineering Conference</i> , University of New Hampshire, March 10-11, 1988		
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JD	C27	Eberhardt et al., "OMAR - A Haptic display for speech perception by deaf and deaf-blind individuals," <i>IEEE Virtual Reality Annual International Symposium</i> , Seattle, WA, Sep. 18-22, 1993	
JD	C28	Rabinowitz et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contractor area," <i>Journal of The Acoustical Society of America</i> , Vol. 82, No. 4, October 1987	
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JD	C35	Gillespie, B., "The Virtual Piano Action: Design and Implementation," <i>Proc. of Int'l Computer Music Conf.</i> September 1994, pp. 167-170	
JD	C36	Snibbe, S. et al., "Haptic Techniques for Media Control," <i>Proc. of 14th Annual Symp. On User Interface Software and Technology</i> , UIST 2001, November 2001, pp. 1-10	
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JD	C38	O'Modhrain, M., "Playing by Feel: Incorporating Haptic Feedback into Computer-Based Musical Instruments," Dissertation, Dept. of Music, Stanford University, November 2000, pp. 1-107	

196514 v1/RE
47MQ01!.DOC

¹ Unique citation designation number.

² Applicant is to place a check mark here if English language Translation attached.

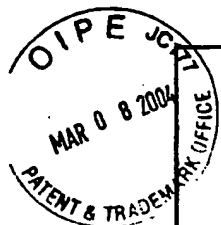
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PTO/SB/08A (08-00)



Substitute for form I449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/781,918
				Filing Date	February 20, 2004
				First Named Inventor	Lonny L. CHU
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	IMMR004/01US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
JD		US 2002/0163498	A1	Chang et al.	11-07-2002
JD		US 2003/0067440	A1	Rank	04-10-2003

FOREIGN PATENT DOCUMENTS						
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³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

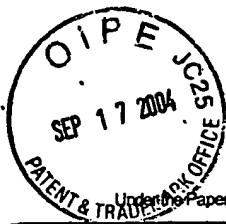
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PTO/SB/08A (10-01)
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Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>		Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/781,918</td> </tr> <tr> <td>Filing Date</td> <td>February 20, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Lonny L. Chu</td> </tr> <tr> <td>Art Unit</td> <td>2673</td> </tr> <tr> <td>Examiner Name</td> <td>Unassigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>IMMR004/01US</td> </tr> </table>		Application Number	10/781,918	Filing Date	February 20, 2004	First Named Inventor	Lonny L. Chu	Art Unit	2673	Examiner Name	Unassigned	Attorney Docket Number	IMMR004/01US
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U.S. PATENT DOCUMENTS					
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		Number Kind Code ² (if known)			
JD		6,422,941	7/23/2002	Thomer et al.	
JD		6,160,489	12/12/2000	Perry et al.	
JD		6,111,577	8/29/2000	Zilles et al.	
JD		5,690,582	11/25/1997	Ulrich et al.	
JD		5,575,761	11/19/1996	Hajianpour	
JD		5,437,607	8/1/1995	Taylor	
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JD		5,186,695	2/16/1993	Mangseth et al.	
JD		5,175,459	12/29/1992	Danial et al.	
JD		5,165,897	11/24/1992	Johnson	
JD		5,022,384	6/11/1991	Freels	
JD		4,885,565	12/5/1989	Embach	
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
JD		JP	H2-185278		7/19/1990	Taito Corporation	
JD		JP	H4-8381		1/13/1992	Epoch Co. and Key- Planning Co.	
JD		JP	H7-24147		1/27/1995	Sega Corporation	
JD		JP	H5-192449		8/3/1993	Taito Corporation	

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JD		PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," <i>Master of Science Thesis</i> , MIT, Aug. 1990, archived Nov. 8, 1990.
JD		CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," <i>Bachelor of Science Thesis</i> , MIT, May 1983, archived June 23, 1983.
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JD		JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," <i>Armstrong Aerospace Medical Research Laboratory</i> , AAMRL-TR-90-039, August, 1990.
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JD		AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.
JD		EBERHARDT et al., "Inducing Dynamic Haptic Perception by The Hand: System Description and Some Results," <i>DSC-Vol. 55-1, Dynamic Systems and Control: Volume 1</i> , ASME 1994.
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JD		PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.
JD		"Cyberman Technical Specification," <i>Logitech Cyberman SWIFT Supplement to Logitech Mouse Technical Reference and Programming Guide</i> , 4/5/1994.
JD		OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," <i>Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95</i> , Seoul, Korea, 21-24 August 1995.
JD		KACZMAREK et al., "Tactile Displays," <i>Virtual Environment Technologies</i> , Chap. 9, pp. 349-414.
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JD		"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).

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JD		"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages).
JD		SCANNELL, "Taking a Joystick Ride," <i>Computer Currents</i> , Boston Edition, Vol. 9, No. 11, November 1994
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JD		ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks," <i>Ph.D. Dissertation</i> , Stanford University, June 1994.

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